



BRIDGEWATER GROUP, INC.

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November 30, 2001

Ms. Judy Linton
U.S. Army Corps of Engineers
333 SW First Ave
Portland OR 97204-3495

Mr. John Malek
EPA Region 10
1200 Sixth Avenue, ECO-083
Seattle, WA 98101

Subject: Construction Monitoring Report
COE 2001-00853
Crawford Street Black Sand Removal Project

This letter presents the Construction Monitoring Report for the Crawford Street Corporation black sand removal action project at the Crawford Street site in Portland, Oregon. This monitoring report fulfills the requirements of the Reasonable and Prudent Measures (RPM) No. 8 as required by the October 17, 2001, COE permit authorization for the Crawford Street site (Permit 2001-00853). This letter also serves to notify the COE and EPA as to the final disposition of the sand removed from the beach during the permitted project.

Permit No.:	2001-00853
Applicants Name:	Crawford Street Corporation
Project Name:	Removal of Contaminated Sediment
Category of Activity:	Minor Discharges and Excavations
Location:	Willamette-Lower N45-35; W122-45
Starting Date for Work:	October 18, 2001
Ending Date for Work:	October 20, 2001
Corps Contact Person:	Ms. Judy Linton (503) 808-4382
Dredged Material Management:	The approximately 65 in-place cubic yards of sand removed from the beach was temporarily placed in a lined, bermed, and covered stockpile located about 130 feet from the shoreline. Three representative soil

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samples were collected from the temporary stockpiled material and analyzed for TCLP lead and chromium. All of the measured concentrations were less than hazardous waste criteria. Based on the test results, the stockpiled material was hauled offsite and disposed at the Waste Management, Hillsboro, Oregon solid waste landfill.

Effect on Stream Function:

The project did not cause any effect on the natural stream function. All work was performed at least 25 feet from the shoreline and no power equipment was used on the beach. Only about 65 cubic yards of sand was removed from the beach and the removal depth was 1-foot or less except in an approximate 10 ft² area where the removal was about 2-feet deep. The sand was removed by vacuuming through a 6-inch diameter hose connected to a vacuum truck parked on top of the bank, about 100 feet from the shoreline and over 15 feet above the Ordinary High Water level. No vegetation below the Ordinary High Water level was disturbed. No large debris present on the beach was disturbed.

Representative photographs showing the preconstruction, construction, and post construction conditions in the project area are attached.

Again, thank you for your help during this project. Please call if you have any questions.

Sincerely,

BRIDGEWATER GROUP, INC.



Ross D. Rieke, P.E.
Vice President
Environmental Consultant

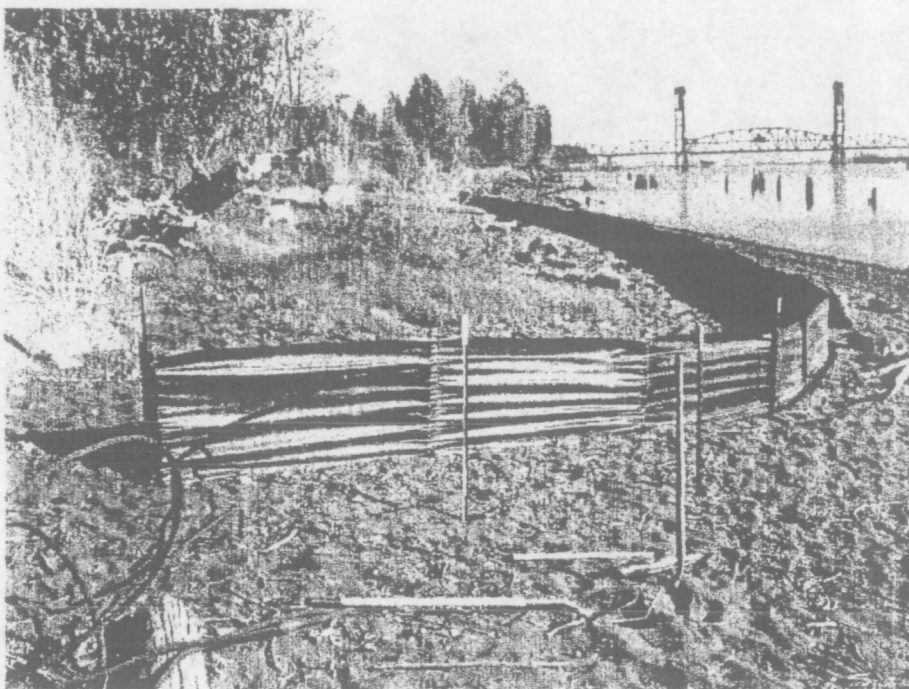


Photo No. 1

Photo Date: 10/17/01

Preconstruction. Looking west along shoreline. Silt fence placed between removal area and the water.

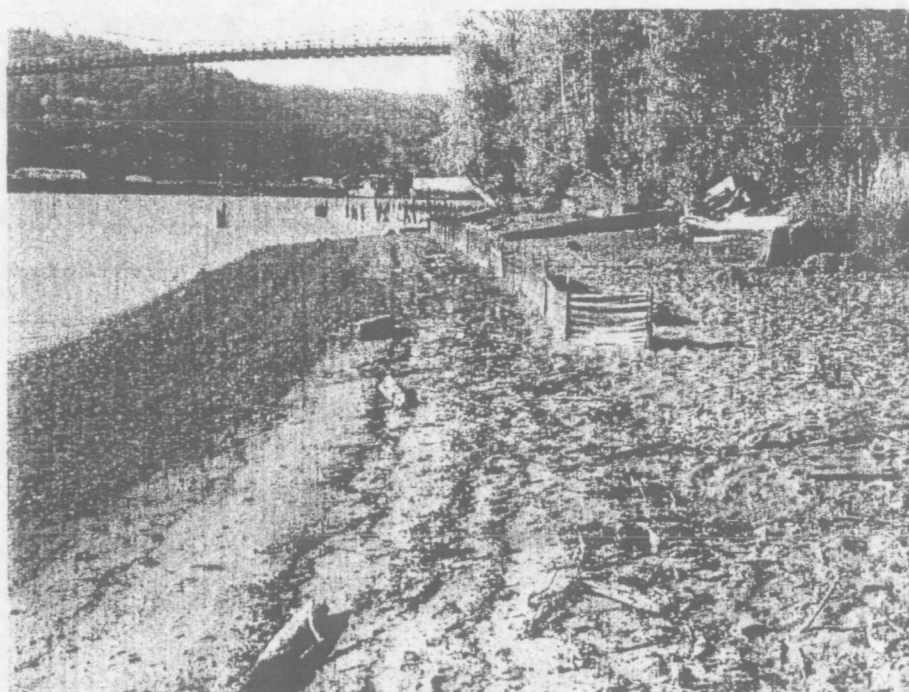


Photo No. 2

Photo Date: 10/17/01

Preconstruction. Looking west along shoreline. Silt fence placed between removal area and the water.

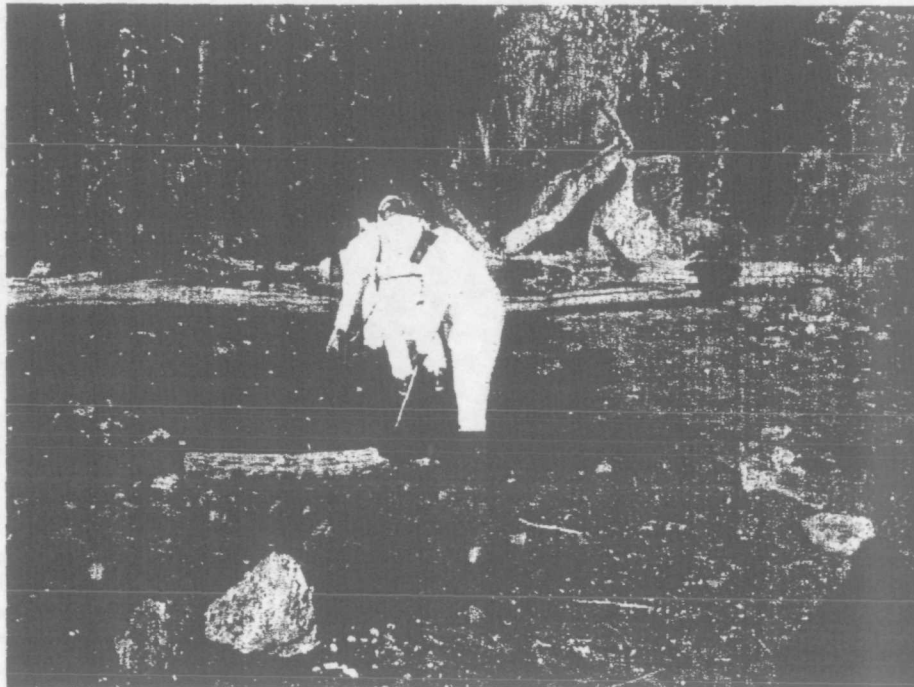


Photo No. 3

Photo Date: 10/18/01

Looking north from shoreline during removal work. Vacuuming black sand from beach.



Photo No. 4

Photo Date: 10/20/01

Post construction. Looking west. Completed beach removal.

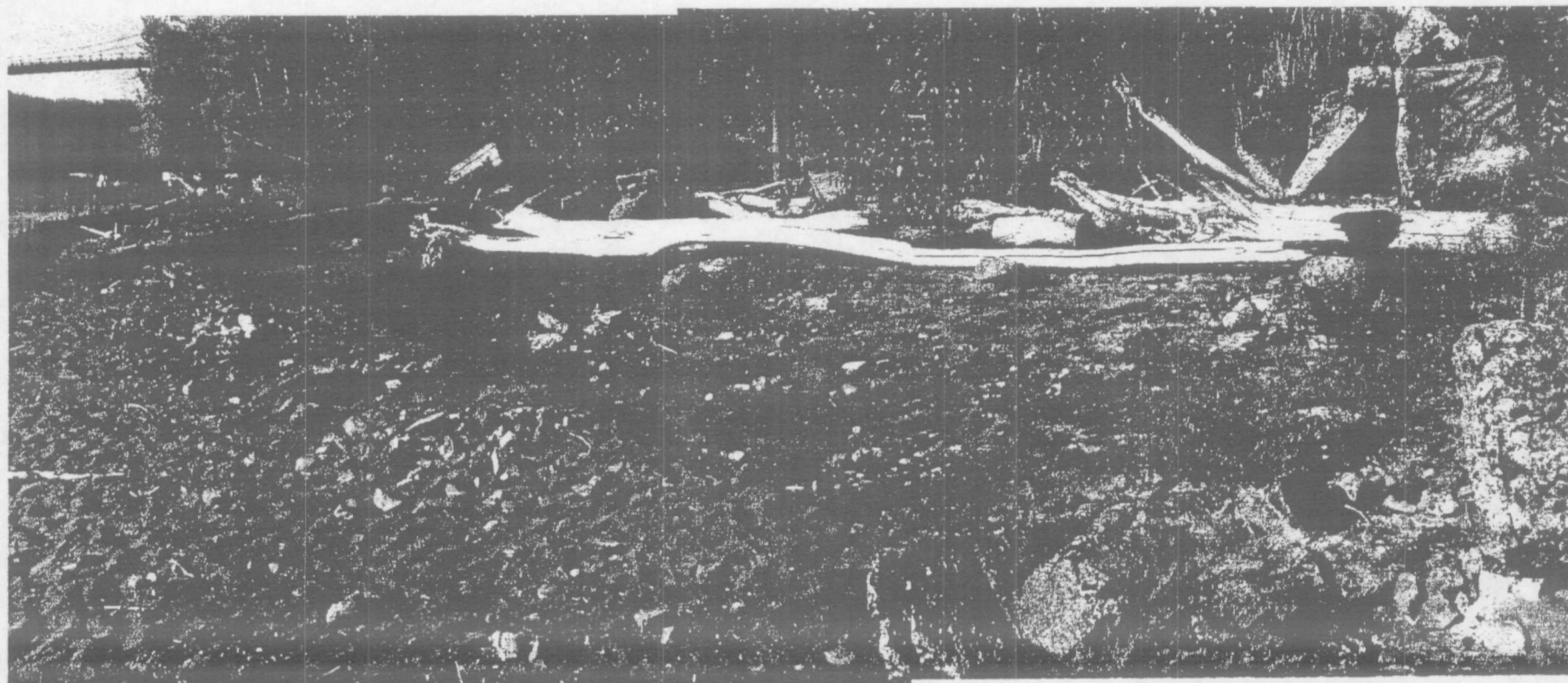


Photo No. 5

Photo Date: 10/20/01

Post Construction. Looking north to west. Completed beach removal.